

WHAT IS CLAIMED IS:

50417 1. A scenario analysis type control system device comprising:

5 a start-up reception means for accepting a periodic start-up;

a scenario storage means for storing two or more text type scenarios each of which implements a specific function and is comprised of control codes;

10 a priority level definition storage means for storing a priority level and a number of steps executable by one start-up, which are provided for each of said two or more text type scenarios stored in said scenario storage means; and

a scenario analysis processing means for, every time said

15 start-up reception means accepts a start-up, determining which text type scenario is to be executed next and which one or more steps of one selected text type scenario are to be executed according to priority levels stored in said priority level definition storage means, and for reading a determined number

20 of steps of the selected text type scenario from said scenario storage means and executing them.

50417 2. The scenario analysis type control system device according to Claim 1, wherein said scenario analysis processing

25 means generates a source program based on the executed text type scenario and data generated by the execution of the text type scenario.

50417 3. The scenario analysis type control system device

30 according to Claim 1, further comprising a scenario execution

trace storage means for storing exclusive execution information for prohibiting execution of any other steps for each of said two or more text type scenarios stored in said scenario storage means, wherein said scenario analysis processing means updates
 5 corresponding exclusive execution information stored in said scenario execution trace storage means according to either an exclusive demand or an exclusive release demand included in a control code executed of the text type scenario, and prohibits
 10 execution of any other steps while the corresponding exclusive information indicates an input of an exclusive demand.

505a77 4. The scenario analysis type control system device according to Claim 1, further comprising a scenario execution trace storage means for storing one or more break points for
 15 interrupting execution of a corresponding text type scenario for each of said two or more text type scenarios stored in said scenario storage means, wherein when one or more break points are included in a control code executed of the text type scenario or when receiving a break point release demand, said scenario
 20 analysis processing means writes the one or more break points into said scenario execution trace storage means or deletes all existing break points for the text type scenario from said scenario execution trace storage means, and interrupts the
 25 execution of the text type scenario while the one or more break points are being written in said scenario execution trace storage means.

505a77 5. The scenario analysis type control system device according to Claim 1, further comprising a scenario execution
 30 trace storage means for storing step execution information for

instructing said scenario analysis processing means to execute a corresponding text type scenario step by step for each of said two or more text type scenarios stored in said scenario storage means, wherein when a step execution instruction is included in a control code executed of the text type scenario or when receiving a step execution release demand, said scenario analysis processing means updates corresponding step execution information stored in said scenario execution trace storage means, and performs the execution of the text type scenario step by step while the corresponding step execution information indicates an input of the step execution instruction.

SUSA 7 6. A scenario analysis type control system device comprising:

15 a start-up reception means for accepting a start-up from an external program;

a scenario storage means for storing two or more text type scenarios each of which implements a specific function and is comprised of control codes;

20 a priority level definition storage means for storing a priority level and a number of steps executable by one start-up from said external program, which are provided for each of said two or more text type scenarios stored in said scenario storage means;

25 an event definition storage means for storing processing type information indicating processing to be performed on external data and scenario identification information indicating one text type scenario that is to be executed and is stored in said scenario storage means, which are provided for each of two or more event identifiers; and

30

a scenario analysis processing means for, every time said
 external program start-up reception means accepts a start-up
 from said external program, determining which text type
 scenario is to be executed next and which one or more steps of
 one selected text type scenario are to be executed from said
 external program according to priority levels stored in said
 priority level definition storage means, for reading a
 determined number of steps of the selected text type scenario
 from said scenario storage means and executing them, for, when
 an event identifier and external data are input from said
 external program, retrieving processing type information and
 scenario identification information corresponding to the event
 identifier from said event definition storage means, for
 processing the external data according to the processing type
 information, and for reading one text type scenario to be
 executed from said scenario storage means according to the
 scenario identification information and executing the text type
 scenario.

7. The scenario analysis type control system device
 according to Claim 6, wherein said scenario analysis processing
 means generates a source program based on the executed text type
 scenario and data generated by the execution of the text type
 scenario.

8. The scenario analysis type control system device
 according to Claim 6, further comprising a scenario execution
 trace storage means for storing exclusive execution information
 for prohibiting execution of any other steps for each of said
 two or more text type scenarios stored in said scenario storage

means, wherein said scenario analysis processing means updates corresponding exclusive execution information stored in said scenario execution trace storage means according to either an exclusive demand or an exclusive release demand included in a control code executed of the text type scenario, and prohibits execution of any other steps while the corresponding exclusive information indicates an input of an exclusive demand.

5 Sub 9. The scenario analysis type control system device according to Claim 6, further comprising a scenario execution trace storage means for storing one or more break points for interrupting execution of a corresponding text type scenario for each of said two or more text type scenarios stored in said scenario storage means, wherein when one or more break points are included in a control code executed of the text type scenario or when receiving a break point release demand, said scenario analysis processing means writes the one or more break points into said scenario execution trace storage means or deletes all existing break points for the text type scenario from said scenario execution trace storage means, and interrupts the execution of the text type scenario while the one or more break points are being written in said scenario execution trace storage means.

25 Sub 10. The scenario analysis type control system device according to Claim 6, further comprising a scenario execution trace storage means for storing step execution information for instructing said scenario analysis processing means to execute a corresponding text type scenario step by step for each of said two or more text type scenarios stored in said scenario storage

means, wherein when a step execution instruction is included in a control code executed of the text type scenario or when receiving a step execution release demand, said scenario analysis processing means updates corresponding step execution
5 information stored in said scenario execution trace storage means, and performs the execution of the text type scenario step by step while the corresponding step execution information indicates an input of the step execution instruction.

09/14/87 14:47:00